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<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>		ATTORNEY'S DOCKET NUMBER 14506-48688
		U.S. APPLICATION NO. (known, see 37 CFR 1.5) <b>10/525648</b> Unassigned
INTERNATIONAL APPLICATION NO. PCT/US2003/026800	INTERNATIONAL FILING DATE 27 August 2003	PRIORITY DATE CLAIMED 27 August 2002
TITLE OF INVENTION BIOREACTORS WITH SUBSTANCE INJECTION CAPACITY		
APPLICANT(S) FOR DO/EO/US John Wikswo, Franz J. Baudenbacher, Frederick R. Haselton, William H. Hofmeister, Charles P. Lin, Lisa J. McCawley, Mark Stremler and Alissa Weaver		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<p>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371.</p> <p>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371.</p> <p>3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</p> <p>4. <input checked="" type="checkbox"/> The US has been elected (Article 31).</p> <p>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))</p> <p style="margin-left: 20px;">a. <input checked="" type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</p> <p style="margin-left: 20px;">b. <input type="checkbox"/> has been communicated by the International Bureau.</p> <p style="margin-left: 20px;">c. <input checked="" type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</p> <p>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).</p> <p style="margin-left: 20px;">a. <input type="checkbox"/> is attached hereto.</p> <p style="margin-left: 20px;">b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</p> <p>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))</p> <p style="margin-left: 20px;">a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</p> <p style="margin-left: 20px;">b. <input type="checkbox"/> have been communicated by the International Bureau.</p> <p style="margin-left: 20px;">c. <input checked="" type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</p> <p style="margin-left: 20px;">d. <input type="checkbox"/> have not been made and will not be made.</p> <p>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</p> <p>9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</p> <p>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</p> <p>Items 11 to 20 below concern document(s) or information included:</p> <p>11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</p> <p>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</p> <p>13. <input type="checkbox"/> A preliminary amendment.</p> <p>14. <input checked="" type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</p> <p>15. <input type="checkbox"/> A substitute specification.</p> <p>16. <input type="checkbox"/> A power of attorney and/or change of address letter.</p> <p>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.</p> <p>18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).</p> <p>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</p> <p>20. <input checked="" type="checkbox"/> Other items or information: Intl Search Rpt PCT/ISA/210; PCT/IB/301; PCT/IB/308; PC/IB/308; Demand PCT/IPEA/401; PCT/IPEA/409; General Power of Attorney; Copy of Unsigned Dec-Poa, Credit Card Authorization Form in the Amount of \$4,200.00; Return Postcard</p>		

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

U.S. APPLICATION NO. (if known, see 37 CFR 1.5) <div style="font-size: 2em; font-weight: bold; text-align: center;">10/525648</div> <div style="text-align: center; font-size: 0.8em;">Unassigned</div>		INTERNATIONAL APPLICATION NO. PCT/US2003/026800		ATTORNEY'S DOCKET NUMBER 14506-48688	
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21. The following fees are submitted:				Applicant use	Office use only
<input checked="" type="checkbox"/>	a) Basic national fee .. \$300.00	\$	300.00		
<input checked="" type="checkbox"/>	b) Examination fee .. \$200.00	\$	200.00		
<input checked="" type="checkbox"/>	c) Search fee \$500.00	\$	500.00		
TOTAL OF ABOVE CALCULATIONS =			\$ 1,000.00		
<input checked="" type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.					
Total Sheets	Extra sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE		
128 - 100 =	28 /50 =	1	x \$250.00	\$	250.00
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).				\$	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	\$	
Total claims	155 - 20 =	135	x \$50.00	\$	6,750.00
Independent claims	5 - 3 =	2	x \$200.00	\$	400.00
MULTIPLE DEPENDENT CLAIM(S) (if applicable)				\$	--
TOTAL OF ABOVE CALCULATIONS =				\$	8,400.00
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.				\$	4,200.00
SUBTOTAL =				\$	4,200.00
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				\$	
TOTAL NATIONAL FEE =				\$	4,200.00
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property				\$	
TOTAL FEES ENCLOSED =				\$	4,200.00
<input checked="" type="checkbox"/> USPTO is Authorized to charge any additional fee(s) or underpayments of fee(s) or credit any overpayments under 37 CFR 1.16 and 1.17.				Amount to be refunded:  Amount to be charged	\$  \$

a. ☐ A check in the amount of \$ \_\_\_\_\_ to cover the above fees is enclosed.

b. ☐ Please charge my Deposit Account No. \_\_\_\_\_ in the amount of \$ \_\_\_\_\_ to cover the above fees. A duplicate copy of this sheet is enclosed.

c. ☐ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. \_\_\_\_\_. A duplicate copy of this sheet is enclosed.

d. ☒ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

**NOTE:** Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

Tim Tingkang Xia, Esq.  
 Morris, Manning & Martin, LLP  
 1600 Atlanta Financial Center  
 3343 Peachtree Road NE  
 Atlanta, Georgia 30326-1044

\_\_\_\_\_  
 SIGNATURE  
 Tim Tingkang Xia  
 \_\_\_\_\_  
 NAME  
 45,242  
 \_\_\_\_\_  
 REGISTRATION NUMBER

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: John P. WIKSWO et al.  
Docket: 14506-48688  
Title: BIOREACTORS WITH SUBSTANCE INJECTION CAPACITY

CERTIFICATE UNDER 37 CFR 1.10

'Express Mail' mailing label number: EL789905812US

Date of Deposit: February 24, 2005

I hereby certify that this paper or fee is being deposited with the United States Postal Service 'Express Mail Post Office To Addressee' service under 37 CFR 1.10 and is addressed to Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

By: 

Name: Tim Tingkang Xia

Mail Stop PCT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450


**Customer No. 24728**

Sir:

We are transmitting herewith the attached:

- ☒ Transmittal Letter to the United State Designated/Elected Office (DO/EO/US) Concerning a Filing Under 35 U.S.C. 371 (2 pages)
- ☒ Copy of International Publication No. WO 2004/020342 A2 & A3 (spec 86 pgs; drawings 40 pgs; cover 2 pgs)
- ☒ Copy of International Search Report PCT/ISA/210 (3 pages)
- ☒ Copy of the Notice of Receipt of Record Copy PCT/IB/301 (2 pages)
- ☒ Copy of Notification of the Recording of a Change PCT/IB/306 (7 pages)
- ☒ Copy of Notice Informing the Applicant of the Communication to the Intl Appln to the Designate Offices PCT/IB/308 (1 page)
- ☒ Copy of PCT Demand PCT/IPEA/401 (6 pages)
- ☒ Copy of International Preliminary Examination Report PCT/IPEA/409 (3 pages)
- ☒ Copy of General Powers of Attorney (9 pages)
- ☒ Application Data Sheet (5 pages)
- ☒ Copy of Unsigned Declaration & Power of Attorney (4 pgs)
- ☒ Credit Card Authorization Form-2038 in the Amount of \$4,200.00
- ☒ Amend the specification by inserting before the first sentence:  
--This application claims the benefit of Provisional Application No. 60/406,278, filed 27 August 2002, which is incorporated by reference herein in its entirety.—
- ☒ Small Entity Status is claimed pursuant to 37 CFR 1.27
- ☒ USPTO is Authorized to charge any additional fee(s) or underpayments of fee(s) or credit any overpayments under 37 CFR 1.16 and 1.17.
- ☒ Return postcard

**Please send all Correspondence to:**  
Tim Tingkang Xia, Esq.  
MORRIS, MANNING & MARTIN, LLP  
1600 Atlanta Financial Center  
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**Customer No. 24728**

By:   
Name: Tim Tingkang Xia  
Reg. No.: 45,242  
TX